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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<table border="1"> <tr> <td>Application Number</td> <td>09/828,600</td> </tr> <tr> <td>Filing Date</td> <td>April 6, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Uht, Augustus K.</td> </tr> <tr> <td>Art Unit</td> <td>2183</td> </tr> <tr> <td>Examiner Name</td> <td>Richard L. Ellis</td> </tr> <tr> <td>Attorney Docket Number</td> <td>022193-010210US</td> </tr> </table>				Application Number	09/828,600	Filing Date	April 6, 2001	First Named Inventor	Uht, Augustus K.	Art Unit	2183	Examiner Name	Richard L. Ellis	Attorney Docket Number	022193-010210US
Application Number	09/828,600																
Filing Date	April 6, 2001																
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Attorney Docket Number	022193-010210US																
Sheet	1	of	8														

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<b>Examiner Signature</b>		<b>Date Considered</b>	
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PTO/SB/A08B (08-03)

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete If Known</b>	
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				Filing Date	April 6, 2001
				First Named Inventor	Uht, Augustus K.
				Art Unit	2183
				Examiner Name	Richard L. Ellis
				Attorney Docket Number	022193-010210US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RLE	1	Agerwala et al., "Data Flow Systems - Special Issue," <i>IEEE COMPUTER</i> , vol. 15, no. 2, pp. 10-13, 1982.	
RLE	2	Aiken et al., "Perfect Pipelining: A New Loop Parallelization Technique," in <i>Proceedings of the 1988 European Symposium on Programming</i> , 1988, 15 pages total.	
RLE	3	Austin et al., "Dynamic Dependency Analysis of Ordinary Programs," in <i>Proceedings of the 19th Annual International Symposium on Computer Architecture</i> , Gold Coast, Australia, pp. 342-351, IEEE and ACM, May 1992	
RLE	4	Banerjee et al., "Fast Execution of Loops With IF Statements," <i>IEEE Transactions on Computers</i> , vol. C-33, pp. 1030-1033, November 1984.	
RLE	5	Beck et al., "The cydra 5 minisupercomputer: Architecture and implementation," <i>Journal of Supercomputing</i> , vol. 7, pp. 143-180, 1993.	
RLE	6	Brekelaar et al., "Hierarchical Scheduling Windows," in <i>Proceedings of the 35th Annual International Symposium on Microarchitecture</i> , Istanbul, Turkey: IEEE, ACM, November 2002.	
RLE	7	Burger et al., "Billion-Transistor Architectures," <i>IEEE COMPUTER</i> , vol. 30, no. 9, September 1997.	
RLE	8	Burger et al., "The SimpleScalar Tool Set, Version 2," URL: <a href="http://www.simplescalar.com/docs/users_guide_v2.pdf">http://www.simplescalar.com/docs/users_guide_v2.pdf</a> , created 1997, accessed: June 14, 2002.	
RLE	9	Calder et al., "Value profiling," in <i>Proceedings of the 30th IEEE Symposium on Microarchitecture</i> , December 1997.	
RLE	10	Chen, "Supporting Highly Speculative Execution via Adaptive Branch Trees," in <i>Proceedings of the 4th Annual International Symposium on High Performance Computer Architecture</i> : IEEE, January 1998, pp. 185-194.	
RLE	11	Cleary et al., "Scaling the reorder buffer to 10,000 instructions," in <i>IEEE TCCA News</i> , pp. 16-20, June 2000.	
RLE	12	Cleary et al., "The Architecture of an Optimistic CPU: The Warp Engine," in <i>Proceedings of the HICSS'95</i> , pp. 163-172, University of Hawaii, January 1995.	
RLE	13	Colwell et al., "A VLIW Architecture For A Trace Scheduling Compiler," <i>IEEE Transactions on Computers</i> , vol. C-37, pp. 967-979, August 1988.	
RLE	14	Colwell et al., "A VLIW Architecture for a Trace Scheduling Compiler," in <i>Proceedings of the Second International Conference Architectural Support for Programming Languages and Operating Systems (ASP LOS II)</i> : ACM and IEEE, September 1987, pp. 180-192.	
RLE	15	Cragon, <i>Branch Strategy Taxonomy and Performance Models</i> , Los Alamitos, California: IEEE Computer Society Press, 1992, 9 pages total.	

Examiner Signature	<i>RLE Richard L. Ellis</i>	Date Considered	7/13/2005
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RLE	16	Cytron, "Doacross: Beyond Vectorization for Multiprocessors (Extended Abstract)," in <i>Proceedings of the 1986 International Conference on Parallel Processing</i> , pp. 836-844, Pennsylvania State University and the IEEE Computer Society, August 1986.			T <sup>2</sup>
RLE	17	Dutta et al., "Control Flow Prediction with Tree-Like Subgraphs for Superscalar Processors," in <i>Proceedings of the 28th International Symposium on Microarchitecture (MICRO-28)</i> , pp. 258-263, IEEE and ACM, November/December 1995.			
RLE	18	Ebciooglu et al., "DAISY: Dynamic Compilation for 100% Architectural Compatibility," IBM Research Report RC 20538, IBM Research Division, August 5, 1996, 82 pages total.			
RLE	19	Ebciooglu, "A Compilation Technique for Software Pipelining of Loops with Conditional Jumps," in <i>Proceedings of the Twentieth Annual Workshop on Microprogramming (MICRO20)</i> , pp. 69-79, Association of Computing Machinery, December 1987			
RLE	20	Ellis, <i>Bulldog: A Compiler for VLIW Architectures</i> . PhD thesis, Yale University, New Haven, CT, 292 total pages, 1985.			
RLE	21	Foster et al., "Percolation of Code to Enhance Parallel Dispatching and Execution," <i>IEEE Transactions on Computers</i> , vol. C-21, pp. 1411-1415, December 1972.			
RLE	22	Franklin et al., "Register Traffic Analysis for Streamlining Inter-Operation Communication in Fine-Grain Parallel Processors," in <i>Proceedings of the Twenty-Fifth International Symposium on Microarchitecture (MICRO-25)</i> : IEEE and ACM, December 1992, pp. 236-245.			
RLE	23	Franklin et al., "The Expandable Split Window Paradigm for Exploiting Fine-Grain Parallelism," in <i>Proceedings of the 19th International Symposium on Computer Architecture</i> , pp. 58-67, ACM, May 1992.			
RLE	24	Ginosar et al., "Adaptive Synchronization," in <i>Proceedings of the 1998 International Conference on Computer Design</i> , 2 pages total, 1998.			
RLE	25	Glass, "Crusoe: Transmeta comes out of the closet," In <a href="http://www.linuxplanet.com/linuxplanet/reports/1441/1">http://www.linuxplanet.com/linuxplanet/reports/1441/1</a> , 6 pages total, 2000.			
RLE	26	Gonzalez et al., "Limits on Instruction-Level Parallelism with Data Speculation," Department d'Arquitectura de Computadores, Universitat Politècnica Catalana, Barcelona, Spain, Technical Report UPC-DAC-1997-34, 14 pages total, 1997.			
RLE	27	Gopal et al., "Speculative Versioning Cache," University of Wisconsin, Madison, Technical Report TR-1334, 11 pages total, July 1997.			
RLE	28	Gostelow, "The u-interpreter," <i>IEEE Computer</i> , vol. 15, pp. 42-49, February 1982.			
RLE	29	Gurd et al., "The manchester prototype dataflow computer," <i>Communications of the ACM</i> , vol. 28, pp. 34-52, January 1985.			
RLE	30	Henning, "SPEC CPU2000: Measuring CPU Performance in the New Millennium," <i>IEEE COMPUTER</i> , vol. 33, no. 7, pp. 28-35, July 2000.			
RLE	31	Henry et al., "Circuits for Wide-Window Superscalar Processors," in <i>Proceedings of the 27th Annual International Symposium on Computer Architecture</i> . Vancouver, BC, Canada: IEEE and ACM, June 10-14, 2000, pp. 236-247.			

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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

4

of

8

**Complete If Known**

<i>UHT &amp; TRADEMARK OFFICE</i>	<i>O I P E JC56</i>
<i>Application Number</i>	09/828,600
<i>Filing Date</i>	April 6, 2001
<i>First Named Inventor</i>	Uht, Augustus K.
<i>Art Unit</i>	2183
<i>Examiner Name</i>	Richard L. Ellis
<i>Attorney Docket Number</i>	022193-010210US

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RLE	32	Henry et al., "The Ultrascalar Processor: An Asymptotically Scalable Superscalar Microarchitecture," in HIPC '98, December 1998, URL: <a href="http://ee.yale.edu/papers/HIPC98-abstract.ps.gz">http://ee.yale.edu/papers/HIPC98-abstract.ps.gz</a> , 18 pages total.	
RLE	33	Huck et al., "Introducing the ia-64 architecture," in IEEE Micro, pp. 12-23, September 2000.	
RLE	34	Jefferson, "Virtual Time," <i>Transactions on Programming Languages and Systems</i> , vol.7, no. 3, pp. 404-425, July 1985.	
RLE	35	Jouppi et al., "Available instruction-level parallelism for superscalar and superpipelined machines," in <i>Proceedings of the International Conference on Architectural Support for Programming Languages and Operating Systems</i> , pp. 272-282, April 1989.	
RLE	36	Karkhanis et al., "A Day in the Life of a Data Cache Miss," in <i>Proceedings of the 2nd Annual Workshop on Memory Performance Issues (WMPI)</i> , at the 29th International Symposium on Computer Architecture (ISCA 2002). Anchorage, Alaska, May 2002.	
RLE	37	Khalaifi et al., "Realizing High IPC Through a Scalable Memory-Latency Tolerant Multipath Microarchitecture," Department of Electrical and Computer Engineering, University of Rhode Island, Kingston, RI 02881-0805, Technical Report 032002-0101, April 2, 2002, URL: <a href="http://www.ele.uri.edu-uh/papers/Levo4TR032002-01.OI.Idf">http://www.ele.uri.edu-uh/papers/Levo4TR032002-01.OI.Idf</a> , 11 pages total.	
RLE	38	Kim et al., "An Instruction Set Architecture and Microarchitecture for Instruction Level Distributed Processing," in <i>Proceedings of the 29th Annual International Symposium on Computer Architecture</i> . Anchorage, Alaska, USA: ACM, May 25-29, 2002.	
RLE	39	Klauser et al., "Dynamic Hammock Predication for Non-predicated Instruction Set Architectures," in <i>Intl. Conf on Parallel Architectures and Compilation Techniques (PACT)</i> . Paris, France, October 1998, pp. 278-285.	
RLE	40	Krewell, "IntelQ01 Earnings Plummet," <i>Cahners Microprocessor</i> , vol. 15, no. 5, May 2001, 1 page total.	
RLE	41	Krewell, "Intel's McKinley Comes Into View," <i>Cahners Microprocessor</i> , vol. 15, no. 10, pp. 1,5 October 2001.	
RLE	42	Kumar, "Measuring Parallelism in Computation-Intensive Scientific/Engineering Applications," <i>IEEE Transactions on Computers</i> , vol. 37, no. 9, pp. 1088-1098, September 1988.	
RLE	43	Lam et al., "Limits of Control Flow on Parallelism," in <i>Proceedings of the 19th Annual International Symposium on Computer Architecture</i> . Gold Coast, Australia: IEEE and ACM, May 1992, pp. 46-57.	
RLE	44	Lebeck et al., "A Large, Fast Instruction Window for Tolerating Cache Misses," in <i>Proceedings of the 29th Annual International Symposium on Computer Architecture</i> . Anchorage, Alaska, USA: ACM, May 25-29, 2002, 12 pages total.	
RLE	45	Lee et al., "Branch Prediction Strategies and Branch Target Buffer Design," <i>COMPUTER</i> , vol. 17, pp. 6-22, January 1984.	
RLE	46	Lepak et al., "On the value locality of store instructions," in <i>Proceedings of the International Symposium on Computer Architecture</i> , pp. 182-191, June 2000.	

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RLE	47	Lilja, "Reducing the Branch Penalty in Pipelined Processors," <i>COMPUTER</i> , vol. 21, pp. 47-55, July 1988.	
RLE	48	Upasti et al., "Superspeculative Microarchitecture for Beyond AD 2000," <i>IEEE COMPUTER</i> , vol. 30, no. 9, pp. 59-66, September 1997.	
RLE	49	Lipasti et al., "Value Locality and Load Value Prediction," in <i>Proceedings of the Seventh Annual International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS- VII)</i> . Boston, MA: IEEE and ACM, October 1996, pp. 138-147.	
RLE	50	Mahike et al., "A Comparison of Full and Partial Predicated Execution Support for ILP Processors," in <i>Proceedings of the 22nd Annual International Symposium on Computer Architecture</i> , pp. 138-149, IEEE and ACM, May 1995.	
RLE	51	Martin et al., "Timestamp snooping: An approach for extending smp's," in <i>Proceedings of the International Conference on Architectural Suport for Programming Languages and Operating Systems</i> , pp. 25-36, November 2000.	
RLE	52	Morano et al., "Implications of Register and Memory Temporal Locality for Distributed Microarchitectures," Dept. of Electrical and Computer Engineering, Northeastern University, Boston, MA, USA, Technical Report, October 2002, pp 1-20, URL: <a href="http://www.ece.neu.edu/groups/nucar/publications/intervs_ls.pdf">http://www.ece.neu.edu/groups/nucar/publications/intervs_ls.pdf</a>	
RLE	53	Morano et al., "Realizing High IPC Through a Scalable Memory-Latency Tolerant Multipath Microarchitecture," in <i>Proceedings of the Workshop On Chip Multiprocessors: Processor Architecture and Memory Hierarchy Related Issues (MEDEA 2 002)</i> , at PACT 2002. Charlottesville, Virginia, USA, September 22, 2002, pp 18-25. Also appears in ACM SIGARCH Computer Architecture Newsletter, March 2003, URL: <a href="http://www.ele.uri.edu/~uht/papers/MEDEA2002final.pdf">http://www.ele.uri.edu/~uht/papers/MEDEA2002final.pdf</a> .	
RLE	54	Morano, "Execution-Time Instruction Predication," Dept. of Electrical and Computer Engineering, University of Rhode Island, Kingston, RI 02881, Technical Report 0320020100, March 2002, pp. 1-10, URL: <a href="http://www.ele.uri.edu/~uht/papers/Levo3TR032002-0100.pdf">http://www.ele.uri.edu/~uht/papers/Levo3TR032002-0100.pdf</a> .	
RLE	55	Nagarajan et al., "A Design Space Evaluation of Grid Processor Architectures," in <i>Proceedings of the 30th Annual ACM/IEEE International Symposium on Microarchitecture</i> . Austin, Texas, USA: ACM, December 2001, pp. 40-51.	
RLE	56	Pajuelo et al., "Speculative Dynamic Vectorization," in <i>Proceedings of the 29th Annual International Symposium on Computer Architecture</i> . Anchorage, Alaska, USA: ACM, May 25-29, 2002.	
RLE	57	Papworth, "Tuning the Pentium Pro Microarchitecture," <i>IEEE MICRO</i> , vol. 16, no. 2, pp. 8-15, April 1996.	
RLE	58	Parcerisa et al., "Efficient Interconnects for Clustered Microarchitectures," in <i>Proceedings of the Eleventh International Conference on Parallel Architectures and Compilation Techniques</i> . Charlottesville, Virginia, USA: IEEE, September 22-25, 2002 10 pages total.	
RLE	59	Park et al., "Reducing Register Ports for Higher Speed and Lower Energy," in <i>Proceedings of the 35th Annual International Symposium on Microarchitecture</i> . Istanbul, Turkey: IEEE, ACM, November 2002, 12 pages total.	
RLE	60	Patt et al., "HPS, a New Microarchitecture: Rationale and Introduction," in <i>Proceedings of the Eighteenth Annual Workshop on Microprogramming (MICRO-18)</i> : IEEE and ACM, December 1985, pp. 103-108.	

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RLE	61	Popescu et al., "The Metaflow Architecture," <i>IEEE MICRO</i> , vol. 11, no. 3, June 1991, pp. 10-13 & 63-73.	
RLE	62	Preston et al., "Design of an 8-wide Superscalar RISC Microprocessor with Simultaneous Multithreading," in <i>Proceedings of the International Solid State Circuits Conference</i> , January 2002. Slides from talk at conference also referenced, 6 pages total.	
RLE	63	Raasch et al., "A Scalable Instruction Queue Using Dependence Chains," in <i>Proceedings of the 29th Annual International Symposium on Computer Architecture</i> . Anchorage, Alaska, USA: ACM, May 25-29, 2002, 12 pages total.	
RLE	64	Rau et al., "Instruction-level parallel processing: History, overview and perspective," <i>International Journal of Supercomputing</i> , vol. 7, pp. 9-50, October 1996.	
RLE	65	Rau et al., "The cydra 5 departmental supercomputer: Design and philosophies, decisions and tradeoffs," <i>IEEE Computer Magazine</i> , vol. 22, pp. 12-34, Jan 1989.	
RLE	66	Riseman et al., "The Inhibition of Potential Parallelism by Conditional Jumps," <i>IEEE Transactions on Computers</i> , vol. C-21, no. 12, pp. 1405-1411, December 1972.	
RLE	67	Rotenberg et al., "Control independence in trace processors," in <i>IEEE Symposium on Microarchitecture</i> , pp. 4-15, December 1999.	
RLE	68	Rotenberg et al., "Trace processors," in <i>IEEE Symposium on Microarchitecture</i> , pp. 138-148, December 1997.	
RLE	69	Sankaralingam et al., "Exploiting ILP, TLP, and DLP with the Polymorphous TRIPS Architecture," in <i>Proceedings of the 30th Annual International Symposium on Computer Architecture</i> . San Diego, California, USA: ACM and IEEE, June 9-11 2003, 12 pages total.	
RLE	70	Sazeides et al., "The Performance Potential of Data Dependence Speculation & Collapsing," in <i>Proceedings of the 29th International Symposium on Microarchitecture (MICRO-29)</i> : IEEE and ACM, December 1996, pp. 238-247.	
RLE	71	Sazeides et al., "The predictability of data values," in <i>Proceedings of the 30th International Symposium on Microarchitecture</i> , pp. 248-258, December 1997, 11 pages total.	
RLE	72	Seznec et al., "Register Write Specialization Register Read Specialization: A Path to Complexity-Effective Wide-Issue Superscalar Processors," in <i>Proceedings of the 35th Annual International Symposium on Microarchitecture</i> . Istanbul, Turkey: IEEE, ACM, November 2002, 12 pages total.	
RLE	73	Smith et al., "Boosting Beyond Static Scheduling in a Superscalar Processor," in <i>Proceedings of the 17th Annual International Symposium on Computer Architecture</i> , pp. 344-354, IEEE and ACM, May 1990.	
RLE	74	Smith, "A Study of Branch Prediction Strategies," in <i>Proceedings of the 8th Annual Symposium on Computer Architecture</i> , pp. 135-148, IEEE and ACM, 1981.	
RLE	75	Smith, "Architecture and Applications of the HEP Multiprocessor Computer," <i>Society of Photo-optical Instrumentation Engineers</i> , no. 298, pp. 241-248, 1981.	
RLE	76	Sohi et al., "Multiscalar processors," in <i>Proceedings of the International Symposium on Computer Architecture</i> , IEEE and ACM, pp. 414-425, June 1995.	

Examiner Signature

Richard Ellis

Date Considered

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RLE	77	Su et al., "GURPR - A Method for Global Software Pipelining," in <i>Proceedings of the Twentieth Annual Workshop on Microprogramming (MICRO-20)</i> , Association of Computing Machinery, pp.88-96, December 1987.	
RLE	78	Taylor et al., "The Raw Microprocessor: A Computational Fabric for Software Circuits and General-Purpose Programs," <i>IEEE Micro</i> , vol. 22, no. 2, pp. 25-35, March-April 2002.	
RLE	79	Thornton, "Parallel operation in control data 6600," in <i>Proceedings of the AFIPS Fall Joint Computer Conference</i> , pp. 33-40, 1964.	
RLE	80	Tjaden et al., "Representation of Concurrency with Ordering Matrices," <i>IEEE Transactions on Computers</i> , vol. C-22, no. 8, pp. 752-761, August 1973.	
RLE	81	Tjaden, "Representation and Detection of Concurrency Using Ordering Matrices," Ph. D. Thesis, The Johns Hopkins University, 199 pages total, 1972.	
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Examiner  
Signature

Richard Ellis

Date  
Considered

7/13/2005

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

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PATENT & TRADEMARK OFFICE		<b>Complete If Known</b>	
Application Number	09/828,600		
Filing Date	April 6, 2001		
First Named Inventor	Uht, Augustus K.		
Art Unit	2183		
Examiner Name	Richard L. Ellis		
Attorney Docket Number	022193-010210US		

<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RUE	92	Uht, "High Performance Memory System for High ILP Microarchitectures," Technical Report 0797-0002, Department of Electrical and Computer Engineering, University, of Rhode Island, August 26, 1997. Available via <a href="http://ele.uri.edu/~uht">http://ele.uri.edu/~uht</a> , 10 pages total.	
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X			
X			

Examiner Signature	Richard Ellis	Date Considered	7/16/2005
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